
# FLOW-i anesthesia machine

## Datasheet for system version 4.4

This document is intended to provide information to an international audience outside of the US.

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# Contents

# FLOW-i anesthesia machine

## Technical specifications

### General

| System model | C20 | C30 | C40 |
|---|---|---|---|
| Base system weight (out of the box weight) | Appr. 138 kg/304 lbs | Appr. 140 kg/309 lbs | Appr. 140 kg/309 lbs |
| Dimensions of base plate | 692x985 mm (27.2"x38.8") | 692x985 mm (27.2"x38.8") | 406x897 mm (16.0"x35.3") Measured over table-top and grips |
| Height (1 drawer) | N/A | 835–1025 mm (32.9"–40.4") Adjustable | 632 mm/ 24.9" |
| Height (2 drawers) | 860 mm/ 33.9" | N/A | 802 mm/ 31.6" |
| Height (3 drawers) | 1030 mm/ 40.6" | N/A | N/A |
| Drawers | 2–3 (1 lockable) | 1 (lockable) | 1–2 (1 lockable) |
| Vertical shafts for optional horizontal rails | 4 | 4 | 4 |
| Wheels | Four wheels (diameter 150 mm/5.9") with separate brakes | Four wheels (diameter 150 mm/5.9") with separate brakes | Three wheels (diameter 50 mm/2.0") |
| Working surface/writing table | Appr. 420x600 mm (16.5"x23.6") | | |
| Additional writing table | 397 mmx250 mm (15.6"x9.8") | | |
| Reading lamp | Adjustable LED light integrated into the display arm | | |

### Display

| | |
|---|---|
| Type | LED touch screen, complete with 11 membrane switches and one rotary knob |
| Size | 432 mmx295 mm (17.0"x11.6") |
| Placement | Attached to display arm |
| Viewing area | 15", 1024x768 pixels with a palette of 512 colors |
| Waveforms | Up to 6 waveforms, user configurable |
| Trends | Graphic display, 1 to 24 hour resolution<br>Numeric display, 1 to 60 minute resolution |

## Environment

| Environment | Operating conditions | Non-operating conditions |
|---|---|---|
| Ambient temperature | +15°C to +35°C (+60°F to +95°F) (Desflurane: +15°C to +30°C, +60°F to +85°F) | –25°C to +60°C (–15°F to +140°F) |
| Battery | +15°C to +35°C (+60°F to +95°F) | +5°C to 40°C (40°F to 104°F) |
| Relative humidity (non-condensing) | 15% to 95% | < 95% |
| Atmospheric pressure | 700 hPa–1060 hPa | 470 hPa–1060 hPa |

## Maximum load

| Accessory/option | C20, max load (kg/lbs) | C30, max load (kg/lbs) | C40, max load (kg/lbs) |
|---|---|---|---|
| Additional writing table | 5/11 | 5/11 | 5/11 |
| Drawer | 5/11 | 5/11 | 5/11 |
| Patient monitor mounting position | 13.5/30 | 13.5/30 | 13.5/30 |
| Auxiliary $O_2$ & Suction module mounting position | 2.5/5.5 | 2.5/5.5 | 2.5/5.5 |
| Parameter box support arm | 5/11 | 5/11 | 5/11 |
| Working surface/ writing table | 20/44 | 5/11 | 5/11 |
| 4 vertical shafts | 5 kg/11 lbs per shaft | 5 kg/11 lbs per shaft | 5 kg/11 lbs per shaft |
| Horizontal rails for hanging accessories | 3/6.6 | 3/6.6 | 3/6.6 |
| Additional arm | 12/26 | 12/26 | 12/26 |
| Backup gas rack | 14/31 | 14/31 | N/A |
| Extra backup gas holder (incl. full gas cylinder) | 7.5/16.5 | 7.5/16.5 | 7.5/16.5 |
| Top shelf | 20/44 | 20/44 | 20/44 |
| Vaporizer holder | 4/8.8 | 4/8.8 | 4/8.8 |
| Universal bracket | N/A | 30/66 | N/A |
| Universal bracket (C20) | 30/66 | N/A | N/A |
| Cable support arm | 0.5/1.1 | 0.5/1.1 | 0.5/1.1 |

## Standards – safety and functionality

| | |
|---|---|
| Safety | IEC 60601-1 (Class 1, Type B)<br>IEC 60601-1-2<br>IEC 60601-1-8<br>ISO 80601-2-13<br>IEC 62304<br>ISO 5360 |
| Electromagnetic compatibility | IEC 60601-1-2 |
| Respiratory gas monitoring | ISO 80601-2-55 |
| Anesthetic gas delivery | ISO 80601-2-13 |
| Usability | IEC 62366 |
| Cleaning Classification according to IEC 60601-1: | IEC 60601-1<br>ISO 80601-2-13 |
| Class I equipment | According to the type of protection against electrical shock |
| Type B equipment | According to the degree of protection against electrical shock |
| Continuous operation | According to the mode of operation<br>(no applicable to the lift, 10% duty cycle) |
| Classification according to EU Medical Directive 93/42/EEC | The anesthesia system is classified as IIb |
| Classification according to IEC 60529 Ingress Protection Rating (IP) | IP21 |

## Power supply

### Mains power

| | |
|---|---|
| Mains power | 100–120V, 220–240V, AC 50–60Hz |
| Power consumption (C30) | 500 VA (auxiliary power outlet not included) |
| Power consumption<br>(patient monitor and maximum auxiliary configuration) | 1220 VA |

### Battery

| | |
|---|---|
| Type | Sealed acid-lead rechargeable |
| Capacity | 38 Ah |
| Operating time | Appr. 90 minutes |
| Charging time | Appr. 6 hours |

### Auxiliary power outlets (option)

| | | |
|---|---|---|
| Power outlet | All auxiliary outlets and the patient monitor outlet are connected to an isolation transformer.<br>Voltage depends on mains power supply | |
| **Type of electrical outlet** | **Max load from each** | **Max load total** |
| 3xIEC outlets | 2A (230V)/4A (110V) | 2A (230V)/4A (110V) |
| 1xIEC patient monitor power cable | 1A (230V)/2A (110V) | 1A (230V)/2A (110V) |
| 3x15A NEMA 5-15R (Option) | 2A-1A-1A (110V) | 2A-1A-1A (110V) |
| Type of auxiliary power outlet<br>Type of patient monitor outlet<br>Type of use<br>Auxiliary power outlets with protective earth<br>Total current | Country specific<br>IEC cable<br>Electronic circuit breakers: 3x1A and 1x3A<br>3 (max 1A per outlet)<br><br>Max 3A | |

## Gas supply inlets and gas outlets

### Central gas

| | | |
|---|---|---|
| Supply pressure inlet | Air/$O_2$/$N_2O$ | 250–650 kPa/<br>2.5–6.5 bar/<br>36–94 PSI |
| Hospital central gas supply must be able to deliver a flow of at least 60 l/min at a supply pressure of 2.8 bar (280 kPa, 41 PSI) | | |
| Connection standards | AGA<br>DISS<br>NIST<br>French standard | |
| Maximum levels | Air<br>$H_2O$ <7 g/$m^3$<br>Oil <0.5 mg/$m^3$<br>Chlorine must not be detectable | $O_2$<br>$H_2O$ <20 mg/$m^3$ |
| Maximum inlet gas temperature | <35°C (<95°F) | |

### Gas supply outlets

| | |
|---|---|
| $O_2$ outlet | Dependent on central gas supply pressure or cylinder inlet pressure |
| Air outlet | Dependent on central gas supply pressure or cylinder inlet pressure |

### Backup gas supply (option)

| | | |
|---|---|---|
| Pin Index cylinders (5 l) | Electronically measured cylinder pressure, Quick-release system for docking and release | |
| Weight and size (backup gas rack) | Appr. 20 kg/44 lbs excluding gas cylinders, 320 mmx730 mmx220 mm (12.6"x28.8"x8.7") (WxHxD) | |
| Cylinder configuration (backup gas rack) | Max 2 cylinders: $O_2$/$N_2O$ or $O_2$/Air | |
| Cylinder configuration (backup gas holder) | $N_2O$, $O_2$ | |
| Cylinder pressure, $O_2$/Air | Max. 20,000 kPa/200 bar/2900 PSI | |
| Cylinder pressure, $N_2O$ | Max. 8,000 kPa/80 bar/1160 PSI | |
| Cylinder safety valve opening pressure | Air/ $O_2$ and $N_2O$ | 650 kPa/6.5 bar/94 PSI |
| All gases and anesthetic agents must conform to the European and American Pharmacopeia | | |

## Anesthesia gas scavenging (AGS)

| | |
|---|---|
| Type | Passive system (including a flow indicator) integrated into the system |
| Scavenging flow | Minimum 25 l/min, or 10 l/min over the set minute volume, whichever is greater |
| Outlet connections | • 30 mm ISO taper<br>• DISS EVAC<br>• 12.7 mm/½" in hose Barb<br>• 25 mm/1" Barb<br>• AGA EVAC<br>• WAGD-to-Vacuum connector<br>• 22 mm out. diam. connector and 22 mm int. diam. connection tube |

## AGC parameters (option)

| | |
|---|---|
| Target $FiO_2$ concentration | 30%–80%, MAX [1] |
| Setting resolution | 1% |
| Target EtAA concentration | Isoflurane: OFF, 0, 0.3%–MAX [2]<br>Sevoflurane: OFF, 0, 0.3%–MAX<br>Desflurane: OFF, 0, 1.0%–MAX |
| Setting resolution | 0.1% |
| Speed parameter | 1–8, MAX |
| Setting resolution | 1 |
| maxFiAA | Isoflurane: Min [3]–5%<br>Sevoflurane: Min–8%<br>Desflurane: Min–18% |
| Setting resolution | 0.1% |
| minFGF [4] | 0.1–2.0 l/min |
| Setting resolution | 0.1 l/min |

## AGC ventilation parameters (option)

| | |
|---|---|
| Tidal Volume | 100–800 ml |
| Minute Volume | 1–10 l/min |
| Respiratory Rate | 8–35 breaths/min [5] |
| $T_{insp}$ | >0.6 s |
| $T_{exp}$ | >1.0 s |
| Pressure above PEEP | 5–40 $cmH_2O$ |

## Recruitment maneuvers (option)

### Monitoring and trends

| | |
|---|---|
| End inspiratory pressure (EIP) | Breath-by-breath |
| Positive end expiratory pressure (PEEP) | Breath-by-breath |
| Dynamic compliance (Cdyn) | Breath-by-breath |
| RM trends timescale | 5 or 20 minutes |
| Set Ppeak alarm limit | The level is plotted with the pressure curves. |
| Breath count | The number of breaths is counted at a certain level of PEEP or PC above PEEP until a further change of these parameters is made. |

### Recruit maneuvers parameters

| | |
|---|---|
| Ppeak target | 30 to 45 $cmH_2O$ |
| PEEP target | 15 to 40 $cmH_2O$ |
| PEEP after RM | 5 to 20 $cmH_2O$ |
| Ppeak increase per step | 2 to 10 $cmH_2O$ |
| Breaths per step | 1 to 10 |
| Breaths at target | 3 to 30 |
| I:E during RM | 1:3.0 to 3.0:1 |

1. MAX is approximately 100% –current inspiratory anesthetic agent concentration
2. Highest allowable setting corresponds to a MACage of 2.0
3. Must be set higher than target EtAA
4. Individually set for each agent, and No agent'
5. RR is limited by $T_{insp}$ and $T_{exp}$

## Fresh gas flow

| | | |
|---|---|---|
| Gas mix | Air/$O_2$<br>$O_2$/$N_2O$ | Electronic Servo controlled<br>Electronic Servo controlled |
| Fresh gas flow range | • MAN = 0.1–20 l/min<br>• AUTO = 0.1–20 l/min (FGF delivery depending on set MV)<br>• AFGO = 1.0–20 l/min | |
| Fresh gas $O_2$/Air Flow (numerical/bargraph) | Selectable | |
| Fresh gas $O_2$/$N_2O$ Flow (numerical/bargraph) | Selectable | |
| Preset $O_2$ concentration | Air/ $O_2$<br>$O_2$/$N_2O$ | 21%–100% ±5%<br>28%–100% ±5% |
| $O_2$ Flush | • Appr. 50 l/min<br>• 2 cm$H_2O$ expiratory resistance when APL is set to SP | |

## Breathing system

| | | |
|---|---|---|
| Type | Circle system with Volume Reflector | |
| System volume (incl. absorber, without patient tubings and manual breathing bag) | Appr. 2.9 l | |
| Maximum volume allowed for patient tubings and optional equipment forming part of the circle system | 3000 ml | |
| Drive gas | $O_2$ | |
| $CO_2$ absorber | Volume<br>Absorbent material | Appr. 0.7 l<br>Sofnolime™ |
| Patient tube connections | 22/15 mm ISO cone | |
| Type of material (breathing circuit system) | PPSU (Polyphenylsulphone) | |
| System compliance (volume of gas lost due to internal compliance - manual mode only) | Appr. 3 ml/cm$H_2O$ | |

### Manual ventilation

| | |
|---|---|
| Electronic APL valve | Spontaneous breathing (SP) and adjustable pressure up to 80 cm$H_2O$ |

### AFGO- Additional Fresh Gas Outlet (option)

| | |
|---|---|
| Type | 22 mm coaxial/15 mm conical outlet connections<br>Pneumatic powered SW controlled (from control panel) |

### Emergency backup ventilation

| | |
|---|---|
| Emergency APL valve | SP–80 cm$H_2O$ |
| $O_2$ emergency flow | 0–10 l/min |

## Ventilator

| | | |
|---|---|---|
| Type | Pneumatic powered Servo controlled | |
| Patient range | Neonatal to Adult | |
| Ventilation modes | • Manual/Bag<br>• AFGO (option)<br>• Volume Control (VC)<br>• Pressure Control (PC)<br>• Pressure Support (PS, option)<br>• Pressure Regulated Volume Control (PRVC, option)<br>• Synchronized Intermittent Mandatory Ventilation (SIMV, option) | |
| Tidal volume (VT) | 20–2000 ml ±10% of actual value or 10 ml, whichever is greater.<br>Note that the FLOW-i delivers tidal volumes down to 5 ml when using Pressure Control. | |
| Tidal volume setting range | Infant range: 20–350 ml, resolution 1 ml<br>Adult range: 100–2000 ml, resolution 10 ml | |
| Minute volume setting range | Infant range: 0.3–20 l/min<br>Adult range: 0.5–60 l/min | |
| Inspiratory pressure (pressure controlled modes) | 0–120 $cmH_2O$ | ±15% or ±2 $cmH_2O$, whichever is greater |
| Inspiratory pressure setting range | Infant range: 0–80 $cmH_2O$, resolution 1 $cmH_2O$<br>Adult range: 0–120 $cmH_2O$, resolution 1 $cmH_2O$ | |
| Compressible volume compensation | Yes | |
| Inspiratory flow | Maximum 3.3 l/s (200 l/min) | |
| Breathing frequency | 4–100 ±1 breaths/minute | |
| I:E (VC, PC) | 1:10–4:1 | |
| PEEP | 0–50 $cmH_2O$ | |
| Trigger | Flow/Pressure | |
| Inspiratory pause (VC) | 0 to 30% or 0–1.5 s | |

## Respiratory monitoring

| | |
|---|---|
| Administered breaths | 1–100 ±1 breath/minute |
| Loops | Flow–Volume<br>Volume–Pressure<br><br>Additional display options include having a reference loop and/or the last two loops shown together with the real-time loop |
| Lung characteristics | Airway resistance (Rdyn)<br>Compliance (Cdyn)<br>Elastance (Edyn) |
| Inspiratory Minute Volume | 0.3–60 l/min ±15% or ±15 ml multiplied by the breathing frequency, whichever is greater |
| Expiratory Minute Volume | 0.3–60 l/min ±15% or ±10 ml multiplied by the breathing frequency, whichever is greater |
| Inspiratory Tidal Volume | 5–2000 ml |
| Accuracy Insp. Tidal Volume | ±4 ml (5–20 ml range) [6]<br>±15% or 10 ml, whichever is greater<br>(20–2000 ml range) |

6. Accuracy valid for $O_2$/Air gas mix, $O_2$ concentration at 60%, RR at 30 and I:E ≥1:2

## Respiratory monitoring (continued)

| | |
|---|---|
| Expiratory Tidal Volume | 5–2000 ml |
| Accuracy Exp. Tidal Volume | +7/–4 ml (5-20 ml range) [6]<br>±15% or 15 ml, whichever is greater (20–2000 ml range) |
| Mean Airway Pressure | 0–100 $cmH_2O$ |
| Peak Airway Pressure | 0–140 $cmH_2O$ |
| End Expiratory Airway Pressure | –40–100 $cmH_2O$ |
| Airway Pressure | –30–140 $cmH_2O$ |
| Airway pressure accuracy (applicable to all pressure measurements) | ±5% of actual value or ±2 $cmH_2O$, whichever is greater |

6. Accuracy valid for $O_2$/Air gas mix, $O_2$ concentration at 60%, RR at 30 and I:E ≥1:2

## Alarms

| | |
|---|---|
| Airway pressure: High | 10–120 $cmH_2O$ |
| Expiratory Minute Volume: High | 0.5–60 l/min |
| Expiratory Minute Volume: Low | 0.01–40 l/min |
| Excessive leakage (automatic mode only) | The difference between the maximum and minimum pressures during inspiration is too low |
| Continuous APL pressure (manual mode only) | Activated when the measured airway pressure exceeds predefined values for more than 15 seconds. Predefined values depend on current APL setting. |
| High continuous pressure (automatic mode only) | Airway pressure is constant above set PEEP level +15 $cmH_2O$ more than 15 seconds |
| Negative airway pressure | Measured airway pressure is below -10 $cmH_2O$ for more than one second |
| Regulated Pressure Limited (PRVC mode only) | Permissible pressure limits pre-set tidal volume |
| PEEP: High | 0–55 $cmH_2O$ |
| PEEP: Low | 0–47 $cmH_2O$ |
| Respiratory Rate: High | 1–140 B/min and OFF |
| Respiratory rate: Low | 1–140 B/min and OFF |
| Apnea | 5–45 s. and OFF |
| Long apnea (manual mode only) | No breath detection for up to 120 s |
| Backup ventilation | Pressure controlled administered breath detected in pressure support backup mode due to time out of the backup respiratory rate parameter |
| Check breathing circuit | Activated when inspiratory and expiratory pressures fail to meet preset requirements |
| Battery operation - battery capacity unknown | Connection error; unable to estimate battery time |
| Limited battery capacity | Less than 18 minutes left of battery operation |
| No battery capacity | Less than 3 minutes left of battery operation |
| Water trap missing/ Replace water trap | The gas analyzer has detected that a water trap replacement is needed |

## Gas alarms

| | Lower limit setting range | Upper limit setting range |
|---|---|---|
| Inspiratory $O_2$ concentration alarm | 18–99% | 23–99% and OFF |
| Expiratory $O_2$ concentration alarm | 10–99% and OFF | 13–99% and OFF |
| Inspiratory $CO_2$ concentration alarm | --- | 0.1–10% |
| Expiratory $CO_2$ concentration alarm | 0.1–9.9% and OFF | 0.1–10% |
| Inspiratory AA concentration alarm | 0.1–5.0% and OFF (ISO)<br>0.1–8.0% and OFF (SEV)<br>0.1–18% and OFF (DES) | 0.1–5.0% (ISO)<br>0.1–8.0% (SEV)<br>0.1–18% (DES) |
| Expiratory AA concentration alarm | 0.1–4.0% and OFF (ISO)<br>0.1–6.0% and OFF (SEV<br>0.1–12% and OFF (DES) | 0.1–5.0% and OFF (ISO)<br>0.1–8.0% and OFF (SEV)<br>0.1–18% and OFF (DES) |
| Agent mixture: MAC > 3 | The MAC of the secondary agent is ≥0.6 and the total MAC value is ≥3 | |
| High continuous MAC | Measured MAC exceeds time limit:<br>MAC >2.2; from starting a New Case, until 15 minutes after the first vaporizer activation. MAC >1.8 otherwise [7] | |
| Agent mixture | The second agent is MAC ≥0.6 and the total MAC value is <3 | |
| Insp $N_2O$: High | Inspiratory $N_2O$ gas supply >80% | |
| Occlusion in sampling line | Detected occlusion reported from Y-piece gas analyzer | |

## Vaporizer

| | | |
|---|---|---|
| Agents | Isoflurane, Sevoflurane and Desflurane | |
| Type | Electronic Injector | |
| Weight (full) | Appr. 3.2 kg/7.1 lbs | |
| Dimensions (mm/inch.) | 70x215x178 (2.8"x8.5"x7.0") | |
| Capacity | 300 ml | |
| Residual capacity | 30 ml (triggering the low level alarm) | |
| Setting range | Isoflurane<br>Sevoflurane<br>Desflurane | 0, 0.3–5%, OFF<br>0, 0.3–8%, OFF<br>0, 1.0–18%, OFF |
| Accuracy | ±15% of set value or ±5% of maximum possible user setting (whichever is greater) | |
| Filling system | Isoflurane<br>Sevoflurane<br><br>Desflurane | • Maquet filling adapter<br>• Quik Fil® and Maquet filling adapter<br>• SAFE-FIL™ |
| Vaporizer filling speed | Appr. 4 ml/s | |
| Overfill protection | Overfilling prevention systems built into the vaporizer | |
| Tank liquid level | Optical and electronic | |
| Agent usage tracking | • Individual agent usage for each of the last 20 patient cases<br>• Total agent usage since last user reset | |

## Patient gas analyzer

| | | |
|---|---|---|
| Measuring technology | $O_2$<br>Agents, $CO_2$, $N_2O$ | Paramagnetic sensor<br>IR sensor |
| Warm-up time | ISO standard accuracy<br>Full accuracy | Within 60 s<br>Within 10 minutes |
| Sampling flow and tolerance | 225 ml/min ±10% (Return to circuit), BTPS condition | |

**Measured parameters**

| | | |
|---|---|---|
| Resp. rate | 2–100 breaths/minute | |
| Respiration rate measurement accuracy | <60 breaths/minute<br>>60 breaths/minute | ± 1 breath/minute<br>Unspecified |
| Gas measuring range | $O_2$<br>$N_2O$<br>$CO_2$<br>Isoflurane<br>Sevoflurane<br>Desflurane | 0–100%<br>0–80%<br>0–10%<br>0–5%<br>0–8%<br>0–18% |
| Inspiratory and End-Tidal $O_2$ Concentration | Yes | |
| Inspiratory and End-Tidal $CO_2$ Concentration | Yes | |
| Inspiratory and End-Tidal $N_2O$ Concentration | Yes | |
| Inspiratory and End-Tidal Agent Concentration | Yes | |
| Automatic AA identification | Yes. Agent mixtures are displayed containing a Primary and Secondary agent (classification depending on relative agent concentration) | |

## Patient suction and auxiliary $O_2$ module (option)

| | |
|---|---|
| Weight | Appr. 2.2 kg/4.9 lbs |
| Patient suction supply pressure (Air) | 300-650 kPa/3-6.5 bar/44-94 PSI |
| Auxiliary $O_2$ supply pressure | 300-650 kPa/3-6.5 bar/44-94 PSI |
| Auxiliary $O_2$ flow range | 0–15 l/min |
| Max. vacuum (suction) | –60 kPa down to –90 kPa at a supply pressure ranging from 3.0 to 6.5 bar |
| Max. suction flow | 28 Nl/min<br>Note that normal liter (Nl) is the volume of gas given ambient conditions, e.g. current atmospheric pressure |

## Misc. optional equipment

| Vaporizer holder | |
|---|---|
| Weight | Appr. 0.8 kg/1.8 lbs |
| Weight including full vaporizer | Appr. 4.0 kg/8.8 lbs |
| Dimensions | 90x220x215 mm/3.5"x8.7"x8.5" (WxHxL) |

**Universal bracket for C20**

| Weight | Appr. 2 kg/4.4 lbs |
|---|---|
| Maximum load | 30 kg/66 lbs |

**EVAC restrictor**

| Weight | Appr. 60 g/2 oz |
|---|---|
| Dimensions | 32x48x48 mm/1.3"x1.9"x1.9" (WxHxL) |

**Manual breathing bag support arm**

| Weight | Appr. 1.0 kg/2.2 lbs |
|---|---|
| Maximum load | 1.0 kg/2.2 lbs |

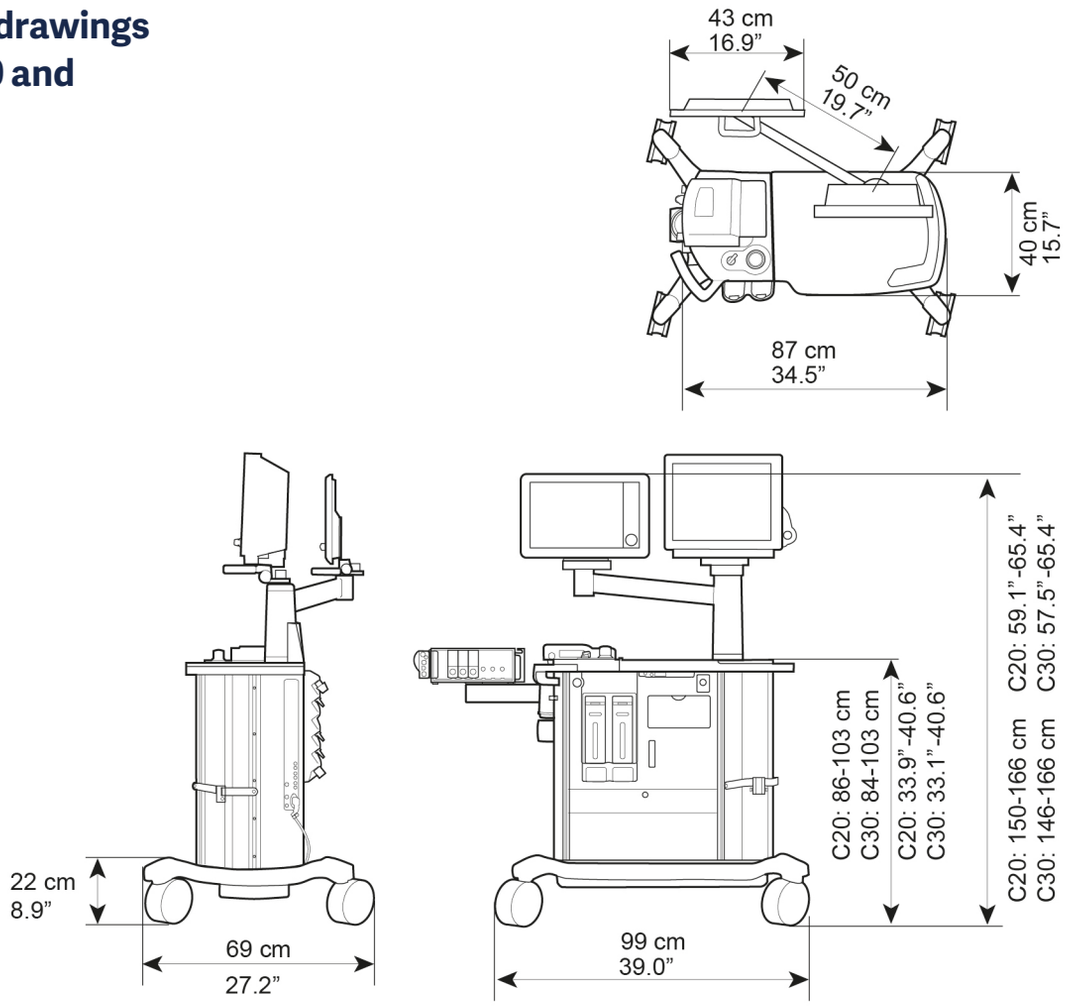
## External communication

| Serial ports | 2xRS232 | FCI protocol |
|---|---|---|
| USB | 1 | |
| Video out | 1 VGA | |
| Ethernet | 1 Network connection for service use | |

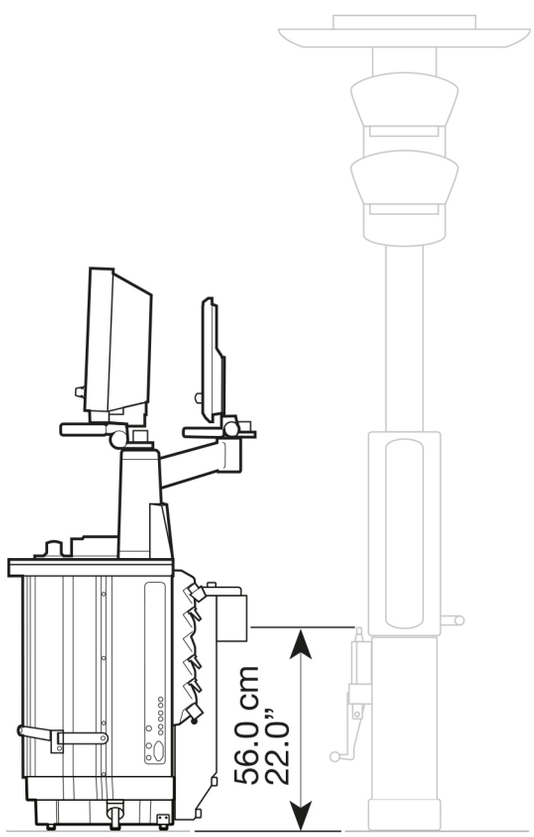
## Ordering information

FLOW-i anesthesia system and accessories:
See separate information in “System flowchart, FLOW-i”, mx-6924.

## Dimensional drawings (showing C20 and C30 models)




## Dimensional drawing (showing C40 model)



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